# Recombinant Human BPTF, His&FLAG-tagged

**Cat. No.** BPTF-33H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human BPTF corresponding to amino acids 2791-2911 that contains the bromodomain sequences of BPTF / FALZ (accession number NP_872579.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | 2791-2911 a.a. |
| **Description** | Bromodomain PHD finger transcription factor (BPTF), also known as Fetal Alzheimer antigen (FALZ), is a histone-binding component of NuRF (nucleosome-remodeling factor), a complex which catalyzes ATP-dependent nucleosome sliding and facilitates transcription of chromatin. BPTF protein contains a DNA-binding domain, a zinc finger motif and a bromodomain. Bromodomains recognize acetylated histone lysine residues and function as "readers" of these epigenetic histone marks to regulate chromatin structure and gene expression by linking associated proteins to the acetylated nucleosomal targets. BPTF also specifically recognizes H3 tails trimethylated on lysine 4 (H3K4me3), which mark transcription start sites of virtually all active genes. It may also regulate transcription through direct binding to DNA or transcription factors. |
| **Form** | 25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol. |
| **Molecular Mass** | 20.3 kDa |

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| **Applications** | Binding assays, inhibitor screening, and selectivity profiling. |
| **Storage** | Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. |
| **Concentration** | 5.5 mg/ml |

## GENE INFORMATION

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| **Gene Name** | BPTF bromodomain PHD finger transcription factor [ Homo sapiens ] |
| **Official Symbol** | BPTF |
| **Synonyms** | BPTF; bromodomain PHD finger transcription factor; FALZ, fetal Alzheimer antigen; nucleosome-remodeling factor subunit BPTF; FAC1; NURF301; fetal Alzheimer antigen; fetal Alz-50 clone 1 protein; fetal Alz-50 reactive clone 1; nucleosome remodeling factor, large subunit; bromodomain and PHD domain transcription factor; bromodomain and PHD finger-containing transcription factor; FALZ; |
| **Gene ID** | 2186 |
| **mRNA Refseq** | NM_004459 |
| **Protein Refseq** | NP_004450 |
| **MIM** | 601819 |
| **UniProt ID** | Q12830 |
| **Chromosome** | 17q24 |

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| **Location** | |
| **Function** | contributes_to DNA-dependent ATPase activity; metal ion binding; protein binding; sequence-specific DNA binding; sequence-specific DNA binding; transcription factor binding; zinc ion binding; |

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